

## LAYER SYSTEM

### CROSS REFERENCE TO RELATED APPLICATION

[0001] This application is the US National Stage of International Application No. PCT/EP2003/012095, filed October 30, 2003 and claims the benefit thereof. The International Application claims the benefits of European Patent application No. 02026012.1 EP filed November 21, 2002, both of the applications are incorporated by reference herein in their entirety.

### FIELD OF THE INVENTION

[0002] The invention relates to a layer system in accordance with the preamble of the claims.

### BACKGROUND OF THE INVENTION

[0003] US-A 5,952,110 discloses a layer system in which coarse particles are present in an outer layer. The coarse particles project out of the outer surface and serve to increase the abrasive resistance. The coarse particles have a different chemical composition than the layer.

[0004] US-A 5,579,534 discloses a layer system which includes at least three layers and in which coarse particles are arranged on a layer of finer particles.

[0005] US 6,444,331 shows a bonding layer which has been roughened in order to achieve improved bonding of thermal barrier coating and bonding layer.

[0006] However, layer systems still suffer from poor bonding of the layers to one another or of the layer to a substrate.

### SUMMARY OF THE INVENTION

[0007] Therefore, it is an object of the invention to overcome this problem.

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